

**Amendments to the Claims**

The listing of claims will replace all prior versions and listings of claims of the application.

**Listing of Claims:**

1. (Currently amended). A catalyst composition comprising a complex of catalytic oxides comprising potassium, cesium, cerium, chromium, cobalt, nickel, iron, bismuth, and molybdenum, wherein the relative ratios of these elements are represented by the following general formula



wherein A is Rb, Na, Li, Tl, or mixtures thereof,

X is P, Sb, Te, B, Ge, W, Ca, Mg, a rare earth element, or mixtures thereof,

a is ~~about~~ 0 to about 1,

b is about 0.01 to about 1,

c is about 0.01 to about 1,

d is about 0.01 to about 3,

e is about 0.01 to about 2,

f is about 0.01 to about 10,

g is about 0.1 to about 10,

h is ~~about~~ 0 to about 4,

i is about 0.1 to about 4,

j is about 0.05 to about 4,

x is a number determined by the valence requirements of the other elements present,

and wherein the catalyst is substantially free of manganese and zinc.

2. (Previously presented). The catalyst composition of claim 1, wherein the catalyst comprises phosphorus.

3. (Previously presented). The catalyst composition of claim 1, wherein the catalyst comprises magnesium.

4. (Previously presented). The catalyst composition of claim 1, wherein the catalyst is substantially free of magnesium.

5. (Previously presented). The catalyst composition of claim 1, wherein the catalyst comprises rubidium.

6. (Previously presented). The catalyst composition of claim 1, wherein the catalyst comprises lithium.

7. (Previously presented). The catalyst composition of claim 1, wherein  $f + g$  is about 4 to about 10.

8. (Previously presented). The catalyst composition of claim 1, wherein the catalyst composition comprises a support selected from the group consisting of silica, alumina, zirconium, titania, or mixtures thereof.

9. (Previously presented). The catalyst composition of claim 8, wherein the support comprises between 30 and 70 weight percent of the catalyst.

10. (Previously presented). The catalyst composition of claim 1, wherein the catalyst composition comprises silica having an average colloidal particle size in between about 8 nm and about 100 nm.

11. (Currently amended). A catalyst composition comprising a complex of catalytic oxides comprising potassium, cesium, cerium, chromium, cobalt, nickel, iron, bismuth, and molybdenum, wherein the relative ratios of these elements are represented by the following general formula



wherein        A is Rb, Na, Tl, or mixtures thereof,  
                  X is P, Sb, Te, B, Ge, W, Ca, Mg, a rare earth element, or  
                  mixtures thereof,  
                  a is ~~about~~ 0 to about 1,  
                  a' is about 0.01 to about 1,  
                  b is about 0.01 to about 1,  
                  c is about 0.01 to about 1,  
                  d is about 0.01 to about 3,  
                  e is about 0.01 to about 2,  
                  f is about 0.01 to about 10,  
                  g is about 0.1 to about 10,  
                  h is ~~about~~ 0 to about 4,  
                  i is about 0.1 to about 4,  
                  j is about 0.05 to about 4,  
                  x is a number determined by the valence requirements of the other  
                  elements present,

and wherein the catalyst is substantially free of manganese and zinc.

12. (Previously presented). The catalyst composition of claim 11, wherein f + g is about 4 to about 10.

13. (Currently amended). A process for the conversion of an olefin selected from the group consisting of propylene, isobutylene or mixtures thereof, to acrylonitrile, methacrylonitrile, and mixtures thereof, respectively, by reacting in the vapor phase at an elevated temperature and pressure said olefin with a molecular oxygen containing gas and ammonia in the presence of a catalyst comprising a complex of catalytic oxides, comprising potassium, cesium, cerium, chromium, cobalt, nickel, iron, bismuth, molybdenum, wherein the relative ratios of these elements are represented by the following general formula

$A_a K_b Cs_c Ce_d Cr_e Co_f Ni_g X_h Fe_i Bi_j Mo_{12} O_x$   
wherein A is Rb, Na, Li, Tl, or mixtures thereof,  
X is P, Sb, Te, B, Ge, W, Ca, Mg, a rare earth element, or  
mixtures thereof,  
a is ~~about~~ 0 to about 1,  
b is about 0.01 to about 1,  
c is about 0.01 to about 1,  
d is about 0.01 to about 3,  
e is about 0.01 to about 2,  
f is about 0.01 to about 10,  
g is about 0.1 to about 10,  
h is ~~about~~ 0 to about 4,  
i is about 0.1 to about 4,  
j is about 0.05 to about 4,  
x is a number determined by the valence requirements of the other  
elements present,  
and wherein the catalyst is substantially free of manganese and zinc.

14. (Previously presented). The process of claim 13, wherein the catalyst comprises phosphorus.

15. (Previously presented). The process of claim 13, wherein the catalyst comprises magnesium.

16. (Previously presented). The process of claim 13, wherein the catalyst comprises rubidium.

17. (Previously presented). The process of claim 13, wherein the catalyst comprises lithium.

18. (Currently amended). The process of claim 13~~-catalyst composition of claim 13~~, wherein, in the catalyst composition,  $f + g$  is about 4 to about 10.

19. (Previously presented). The process of claim 13, wherein the catalyst composition comprises a support selected from the group consisting of silica, alumina, zirconium, titania, or mixtures thereof.

20. (Previously presented). The process of claim 19, wherein the support comprises between 30 and 70 weight percent of the catalyst.

21. (Previously presented). The process of claim 13, wherein the catalyst composition comprises silica having an average colloidal particle size in between about 8 nm and about 100 nm.